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ABSTRACT

Reported are the results of a survey on preservice elementary mathematics teacher education programs in Canada conducted by the Commission on the Education of Teachers of Mathematics of the National Council of Teachers of Mathematics. The Commission surveyed 22 teacher education institutions to ascertain the status of preservice programs. The document contains the survey instrument and reports the frequency of each response on each item. The survey instrument has seven major categories: (1) admission; (2) elementary mathematics major; (3) mathematics content preparation; (4) mathematics teaching methods preparation; (5) other professional education courses; (6) practicum/field experiences; and (7) general information. (MP)

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James N. Sherrill

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Commission on the Education of Teachers of Mathematics

Survey

cf

BEST COPY AVAILABLE

Pre-Service Teacher Education Programmes

(CANADA)

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October 1978

Teachers of Mathematics

Canada



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Commission on the Education of Teachers of Mathematics

Survey Instrument on Preservice Elementary Mathematics Teacher Education

A. Admission

1. Do you have special criteria for admission to elementary teacher education in addition to those established for admission to the institution? ☐ YES ☐ NO

If the answer to question 1 is "NO," omit question 2 and proceed to part B, question 3.

2. Check each of the criteria used to determine admission to a program in elementary education. Please put a star by the letter of each checked criterion that is not required for admission to the institution. Also for each checked criterion, please provide the requested information.

- | | |
|--------------------------------------|--|
| a. Overall grade point average (GPA) | ☐ Cut-off score: _____ |
| b. Secondary school rank or average | ☐ Cut-off score: _____ |
| c. Speech clearance | ☐ By what means? _____ |
| d. Personal interview | ☐ By whom? _____ |
| e. Recommendation(s) from faculty | ☐ Number? or sources? _____ |
| f. Other | ☐ Please describe: _____ |

B. Elementary Mathematics Major

3. Can an elementary education student take a major or concentration in mathematics? ☐ YES ☐ NO

If your answer to question 3 was "NO," then omit the rest of this part and proceed to part C.

All the remaining items in this part of the questionnaire concern the students majoring or concentrating in elementary mathematics education. Though the questions are worded "elementary mathematics major," both majors and concentrations are intended. If you have both majors and concentrations at your school, please answer for both groups and identify each answer with the proper group.

4. On the average, how many elementary mathematics majors graduate each year from your institution? Number: _____

5. Which mathematics content courses do elementary mathematics majors take that the other elementary education students do NOT take?

Title _____ Unit value _____

Title _____ Unit value _____

Title _____ Unit value _____

Title _____ Unit value _____

Others _____

6. Which mathematics methods courses do elementary mathematics majors take that the other elementary education students do NOT take?

Title _____ Unit value _____

Title _____ Unit value _____

Title _____ Unit value _____

Title _____ Unit value _____

C. Mathematics Content Preparation

7. Which of the following best describes the organization of your institution:

☐ semester system ☐ trimester system ☐ quarter system ☐ 1-year term

8. Circle the numeral below that represents the number of credit hours in mathematics content required of all elementary education majors enrolled in the institution:

0 1 2 3 4 5 6 7 8 9 10 11 12 More than 12

9. a. Required mathematics content courses must be taken before the methods courses ☐ YES ☐ NO

b. Required mathematics content courses may be taken concurrently with the methods courses ☐ YES ☐ NO

c. There is no requirement about the timing of the mathematics content and methods courses ☐ YES ☐ NO

10. Below is a list of mathematics topics. Please check the appropriate box according to whether the specified topic is in a course required or recommended for elementary education students.

- | | | | | |
|----|---|-----------------------------------|--------------------------------------|--------------------------------------|
| a. | Arithmetic functions (numeration, computation with whole numbers, fractions, decimals) | ☐ Required | ☐ Recommended | ☐ Not Studied |
| b. | Algebra (sets, rational numbers, field properties, integers, linear functions, graphing, equations) | ☐ Required | ☐ Recommended | ☐ Not Studied |
| c. | Geometry (shapes, properties of plane figures, proof, axiomatics, constructions) | ☐ Required | ☐ Recommended | ☐ Not Studied |
| d. | Probability and statistics (combinations, sampling, descriptive statistics) | ☐ Required | ☐ Recommended | ☐ Not Studied |
| e. | Coordinate geometry and vectors | ☐ Required | ☐ Recommended | ☐ Not Studied |
| f. | Computer use | ☐ Required | ☐ Recommended | ☐ Not Studied |
| g. | Calculator mathematics | ☐ Required | ☐ Recommended | ☐ Not Studied |
| h. | Other (please list) _____ | | | |

11. Please list below the names of the mathematics content courses taken by all education students, not just the elementary mathematics majors:

- | | Course Title | Text Title | Unit value | Instructor-constructed Materials |
|----|--------------|------------|------------|--|
| a. | _____ | _____ | _____ | Yes ☐ No ☐ |
| b. | _____ | _____ | _____ | Yes ☐ No ☐ |

D. Mathematics Teaching Methods Preparation

12. Circle the numeral below that represents the number of credit hours in mathematics methods required of all elementary education majors enrolled in the institution:

0 1 2 3 4 5 6 7 8 9 More than 9

13. Place a check mark in the appropriate column for each kind of nonprint material and estimate the number of clock-hours use with each.

	Students have hands-on experience	Clock hours	Use is demonstrated to students	Clock hours
a. Attribute blocks				
b. Geometric shapes, e.g., Geoblocks, pattern blocks, tangrams				
c. Place value materials, e.g., Multibase Arithmetic Blocks, Chip trading activities				
d. Geoboards				
e. Counting materials, e.g., chips linking cubes				
f. Colored rods				
g. Abacus				
h. Hand-held calculator				
i. Computer				
j. Filmstrips				
k. Overhead transparency films				
l. Computation games, e.g., TUF, Heads-Up				
m. Films				
n. Other (please specify) _____				

14. Please check each of the following products that are generally required of the elementary education students in their mathematics methods course(s):

- a. an original mathematical game
- b. summaries of journal articles
- c. book critiques
- d. self-contained learning package
- e. an original laboratory or discovery activity
- f. a resource or idea file
- g. Other (please specify) _____

15. Check each of the activities and/or instructional areas emphasized in your instruction in mathematics education.

	None	Little	Moderate	Extensive
a. Study of learning theories related to mathematics	_____	_____	_____	_____
b. Lesson planning	_____	_____	_____	_____
c. Test item construction	_____	_____	_____	_____
d. Manipulatives/labs in mathematics	_____	_____	_____	_____
e. Use of media	_____	_____	_____	_____
f. Use of computers	_____	_____	_____	_____
g. Use of calculators	_____	_____	_____	_____
h. Exposure to the activities and journals of the NCTM	_____	_____	_____	_____

	None	Little	Moderate	Extensive
i. Exposure to the activities and journals of state/local mathematics education professional organizations	_____	_____	_____	_____
j. Study of problems in				
1. special education	_____	_____	_____	_____
2. urban education	_____	_____	_____	_____
3. career education	_____	_____	_____	_____
4. slow/gifted students	_____	_____	_____	_____
5. individualized instruction	_____	_____	_____	_____
k. Analysis of video tapes	_____	_____	_____	_____
l. Pencil-paper simulations	_____	_____	_____	_____
m. Micro-teaching to peers	_____	_____	_____	_____
n. Other (please specify)	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____

E. Other Professional Education Courses

16. Please check the appropriate column concerning other courses required or recommended for elementary education students.

Courses	Required	Recommended	Not Suggested
a. Dynamics of Group Learning	_____	_____	_____
b. Educational Psychology Statistics	_____	_____	_____
c. Philosophy of Education	_____	_____	_____
d. Sociology of Education	_____	_____	_____
e. Theories of Learning	_____	_____	_____
f. History of Education	_____	_____	_____

F. Practicum/Field Experiences

17. Check only those activities REQUIRED in the field as part of the mathematics education program, exclusive of student teaching.

- a. Observation
- b. One-to-one tutoring
- c. Small group instruction
- d. Other (please specify) _____

If none of the above applies to your situation, please proceed to question 19.

18. Please fill in the appropriate information for each of the activities you checked in item 17.

Check each of those who
regularly supervise

	number of clock hours	grade levels	Graduate Student	College Faculty	Public School Faculty
a. Observation	_____	_____	_____	_____	_____
b. One-to-one tutoring	_____	_____	_____	_____	_____
c. Small group instruction	_____	_____	_____	_____	_____
d. Other (as specified in item 17)	_____	_____	_____	_____	_____

ITEMS 19 - 22 ARE CONCERNED WITH THE STUDENT TEACHING EXPERIENCE(S):

19. Check all of the following that are prerequisites to student teaching:

- a. passing grade in one or more mathematics education courses
- b. overall GPA
- c. GPA in major
- d. Other (please specify) _____

Cut-off score: _____

Cut-off score _____

20. a. On the average, how many clock hours of student teaching does each elementary education student have before taking the mathematics methods course(s)?

Hours: _____

- b. On the average, how many clock hours of student teaching does each elementary education student have during the mathematics methods course?

Hours: _____

- c. On the average, how many clock hours--including those listed above in a. and b.--of student teaching does each elementary education student have upon graduating?

Hours: _____

- d. On the average, how many of the clock hours listed above in c. are spent teaching mathematics?

Hours: _____

- e. How many clock hours of student teaching are the elementary education students required to spend teaching mathematics?

Hours: _____

21. The student teaching experience:

- a. Total number of weeks: _____

- b. Number of class hours taught each day during last week of student teaching: _____

22. Student teaching supervision:

Number of visits made by a mathematics specialist from the institution

Number: _____

Number of visits made by a nonmathematics specialist from the institution

Number: _____

Number of visits made by a graduate student

Number: _____

Average length of visit

Minutes: _____

G. General Information

23. Is the mathematics preparation of the elementary education students related to science?

Content YES ☐ NO ☐

Methods YES ☐ NO ☐

24. Has your state/province either already mandated Competency-based Teacher Education (CBTE) or committed itself to do so by some future date?

YES ☐ NO ☐ If you marked "NO," go to item 26.

25. To what extent is your program presently competency-based?

None ☐ Little ☐ Moderate ☐ Extensive ☐

26. Which of the following kinds of specific certifications does your program prepare?

____ Pre-school ____ K-3 ____ 4-6 ____ K-6

____ Other (please describe) _____

27. If only one principal certification is available for elementary education students at your institution, which added endorsement options are available?

____ Pre-school ____ Middle school ____ Kindergarten-primary

____ Junior secondary ____ Other (please describe) _____

28. Check each of the following means by which you have evaluated your program since 1972.

a. Follow-up of graduates

b. Written feedback form given to those just completing program

c. Written survey of public school cooperating faculty

d. Other (please specify) _____

29. How many years ago was the most recent elementary classroom teaching experience for each of the instructors teaching your elementary mathematics methods courses?

Has Never Taught

At That Level

Years

Mathematics methods Instructor A

Mathematics methods Instructor B

Mathematics methods Instructor C

How many years ago was the most recent elementary classroom teaching experience for each of the instructors teaching your elementary mathematics content courses?

Has Never Taught

At That Level

Years

Mathematics content Instructor A

Mathematics content Instructor B

Mathematics content Instructor C

30. If the program includes some unusual, innovative, or particularly productive practices, please describe briefly below (use back of page if necessary), e.g., combined content-methods courses, alternate programs, computerized instruction.

31. What is the single most important aspect of your program? Describe briefly and indicate whether explanatory/support materials are available upon request.

32. What is the greatest need or problem in your program?

Thank you for spending the time necessary to complete this form. Please return it in the envelope provided to:

Mr. Charles R. Hucka
NCTM
1906 Association Drive
Reston, Virginia 22091

ELEMENTARY SURVEY
U. S. A. and CANADA

Item 5---MATHEMATICS CONTENT COURSE TAKEN BY MAJORS

1. Algebra
2. Trigonometry
3. Computers (See #43)
4. Finite mathematics
5. Probability and statistics
6. Junior level/Senior level
7. Geometry for elementary teachers
8. Electives
9. Analytic Geometry
10. Calculus
11. Pre-calculus algebra and trigonometry
12. Linear algebra
13. Intermediate calculus
14. Theory of numbers
15. Foundations of mathematics
16. Others
17. Abstract algebra
18. Mathematics for elementary teachers
19. College geometry
20. Analysis for elementary teachers
21. Business mathematics
22. History of mathematics
23. Trends in pre-college mathematics
24. NCNE (Combined with zero score)
25. College mathematics
26. Number systems
27. Modern concepts of mathematics
28. Mathematical Insights
29. Algebra in the elementary schools
30. Logic
31. Theory of sets
32. Selected topics
33. Discourse in mathematics
34. Informal geometry
35. Elementary functions
36. Modern geometries
37. Mathematics labs
38. *
39. Theory of arithmetic
40. Basic concepts of mathematics
41. Academic major in mathematics
42. Measurement and computation
43. Computers (Same as #3)
44. *
45. *

*These categories were on questionnaires which
were eliminated due to insufficient data.

Item 6---MATHEMATICS METHODS COURSE TAKEN BY MAJORS

1. NCNE(Combined with zero score)
2. Teaching skills
3. Mathematics for elementary teachers
4. Elementary mathematics methods
5. Advanced seminar in elementary school
6. Curriculum: Mathematics concepts for early childhood learning
7. *
8. *
9. Mathematics education 7 - 12
10. Mathematics labs
11. Geometry in the elementary schools
12. Computers in the schools
13. Electives---Mathematics
14. Corrective techniques
15. Individualized mathematics in the elementary schools
16. Methods for team leadership---Mathematics
17. Modern Mathematics
18. Measurement and metrics
19. Problems in teaching arithmetic
20. Mathematics in the middle school
21. Topics in elementary school mathematics
22. Teaching mathematics to slow learners
23. *

Item 11---MATHEMATICS CONTENT COURSE TAKEN BY ALL

1. Mathematics for elementary Teachers
2. Algebra
3. Some locally numbered course
4. NONE(combined with zero score)
5. Fundamental concepts of mathematics
6. Electives
7. Introduction to mathematics and computers
8. Symbols of mathematics systems
9. Theory of arithmetic and geometry
10. Numbers communication
11. Structure of the number system(arithmetic)
12. Concepts of numbers
13. Basic mathematics
14. Contemporary (or modern) mathematics
15. Modern elementary mathematics
16. Mathematics concepts
17. Mathematical structures
18. Mathematics for general studies
19. Statistics
20. College mathematics
21. Geometry for elementary teachers
22. Mathematical discourses
23. Mathematics from an advanced standpoint
24. Cultural mathematics
25. Logic and sets
26. Probability and statistics
27. Mathematics fundamentals
28. Mathematics surveys
29. Basic algebra and geometry
30. Foundations of mathematics
31. General mathematics
32. Mathematics in the elementary schools
33. Introduction to mathematics
34. Finite mathematics
35. Principles of mathematics
36. Pre-calculus mathematics
37. Real number system
38. Nature of mathematics
39. Elements of mathematics
40. Primary mathematics
41. Topics in mathematics
42. Mathematics for applications
43. Foundations of elementary mathematics
44. Educational mathematics
45. *

Item 11---TEXTBOOK FOR COURSE TAKEN BY ALL

1. Instructor's notes
2. Basic Algebra
3. Mathematics for Elementary School---Beqle
4. Mathematics in the Elementary School---Schultz
5. Tcday's Mathematics---Heddons
6. Mathematics: Man-Made Universe
7. Ccntemporary Mathematics---Meserve
8. Theory of Arithmetic---Peterson
9. Modern Mathematics: An Elementary Approach---Wheeler
10. Varies
11. Topics in Contemporary Mathematics---Britten and Bello
12. Practical Mathematics
13. The Power of Relevant Mathematics
14. Modern Elementary Mathematics
15. A book by Devine and Kaufman
16. A Survey of Mathematics
17. Nature of Mathematics
18. Statistics: A Common Sense Approach
19. Introduction to Mathematics---Meserve and Sobel
20. Algebraic and Arithmetic Structures---Bell
21. Patterns and Systems
22. Elementary College Mathematics
23. A book by O'Daffer and Clemens(spelling?)
24. Journals and other professional publications
25. Mathematics: An Everyday Experience---Miller
26. Lessons in Essential Mathematics--Book I
27. Mathematics From An Advanced Standpoint
28. Basic Mathematics
29. College Algebra
30. *
31. Pcundations of Number Systems
32. Mathematical Ideas
33. Thecry of Applications of Mathematics for Teachers
34. Arithmetic Concepts and Skills
35. Introduction to Mathematics---Krananie(spelling?)
36. Introduction to Mathematics---Burleson
37. Introduction to Statistics
38. Basic Concepts of Mathematics for Elementary Teachers---Dubisch
39. Mathematics Methods Program---Indiana Project
40. Mathematics for Elementary Teachers
41. Principles of Mathematics---Rees
42. Elementary Mathematics---Filippone
43. Mathematics: A Human Endeavor---Jacobs
44. A book by Willerding and Copeland
45. Introduction to Modern Mathematics---McFarland
46. Elementary Contemporary Mathematics---Ohmer, et. al.
47. Introduction to Modern Mathematics---Setek
48. Fundamentals of College Mathematics---Wheeler
49. Second Mathematics Course for Elementary Teachers---Krause
50. Diagnostic Teaching of Elementary School Mathematics

51. Intermediate Algebra---Keller
52. Basic Statistics
53. Principles of Arithmetic and Algebra---Allendorfer
54. Modern Elementary Mathematics---Graham
55. Nature of Modern Mathematics---Smith
56. Fundamental Arithmetic
57. Introduction to Modern Algebra
58. The Whole Craft of Number
59. Mathematics: A Liberal Arts Approach
60. Use several textbooks
61. The Math Book
62. Mathematical Concrete Behavioral Foundations
63. Mathematics for Elementary School Teachers (same as #40?)
64. *
65. *

Item 30---INNOVATIVE PRACTICES

1. Prepare teachers that teach only mathematics
2. One course in mathematics; content and methods in education
3. Two methods courses
4. Integrated content and methods
5. Two content courses on elementary school mathematics prior to the methods course
6. Computer education course
7. Study "Buddy" approach
8. Students alternate between campus and elementary school
9. Methods taught in the mathematics department
10. Course offered in subject "blocks"
11. Undergraduates observe classes of previous graduates
12. Mathematics specialists teach methods
13. "Hands on" approach
14. Lab with methods course
15. Methods courses are connected to the field experience
16. Three alternatives for the content/methods are offered
17. Students work in mathematics labs in the elementary schools
18. Emphasis on "How can you find out yourself?"
19. Methods course designed like the elementary school
20. Kids are brought to campus for the methods class
21. Extensive field experiences
22. Students produce their own materials
23. Professor has extensive contact with students
24. Diagnosis and remediation component
25. Content courses designed by both mathematics and mathematics education
26. Combined science/mathematics methods
27. Use of materials
28. Combined science/mathematics resource room
29. Humanistic approach
30. Individualized instruction
31. Micro-teaching
32. Metric teaching is covered
33. Very flexible
34. Elementary education students must have major other than elementary education
35. Competency Based Teacher Education (CBTE)
36. Computer instruction
37. Use of the number line and use of Sorobon
38. Elementary mathematics concentrations research and help teach topics requested by local teachers
39. Use of video or audio tapes

40. Observe teachers as freshmen, aide as sophmores, teach half days all senior year
41. Indiana Project is used
42. Screen students on mathematics competency
43. Have contact with kids each year
44. Mathematics taught by mathematics education
45. Resident Intern Program (RIP)
46. Go to the schools to work with kids
47. Student teachers work in small groups in schools
48. *
49. Professors were elementary school teachers and still go in classes
50. Bidirectional TV tutoring
51. Presents up-to-date legal issues
52. Demcnstration lessons
53. Students grouped by experience
54. Used the Multi-Media Individualized Elementary Teacher Preparation Program
55. Stresses the learning disabled population
56. Professors are in mathematics and mathematics education
57. Small group for classes
58. Alternatives to regular program

Item 31---SINGLE MOST IMPORTANT ASPECT OF PROGRAM

1. Planning and teaching the program for the students
2. Lab oriented
3. Sensitize the students to teaching
4. Cooperation of the faculties
5. School personnel used in methods classes
6. Field experiences
7. Methods and field experiences tied together
8. School textbooks used in methods classes
9. Small classes
10. Change negative attitudes
11. Learning theories
12. Methods/content integrated
13. Supervision/individual work with students
14. Methods courses taught by specialists
15. Content/methods taught in mathematics department
16. Clinic on pre-number experiences
17. Learning packets(individual instruction)
18. Students make materials
19. Multi-methods approach
20. Diagnosis/remediation approach
21. Academic background
22. Peer teaching
23. Lets kids be creative
24. Five year program with one semester of student teaching
25. Methods classes
26. Flexibility and variety
27. NONE(combined with zero score)
28. Mathematics taught realistically in lay terms
29. Performance level required
30. Pre-student-teaching experiences
31. Liberal arts program
32. Discovery approach
33. Personnel
34. Use of school kids in methods class
35. Everything
36. Student presentation of topics
37. Work with kids in school prior to student teaching
38. Professors work in the public schools all the time
39. Mathematics content
40. Content/methods taught in education
41. Minicourse within course
42. Team teaching
43. **
44. Use of VTR
45. **
46. **
47. CETE
48. **
49. Deals with needed concepts
50. Use of teaching aids
51. Effort to get more mathematics in elementary program

While these categories do appear on questionnaires, they never appear as the first listing under the single most important aspect of the program.

Item 32---GREATEST NEED IN THE PROGRAM

Due to the coding of Item 31 the field placement for item 32 varied. The data for Item 32, therefore, were analyzed by hand and appear below. *****U. S. A. RESULTS ONLY*****

1. More time	52
2. More involvement with non-mathematics professors	1
3. More students	11
4. Academic background of students	13
5. Materials and facilities	19
6. Work with kids during methods	6
7. Too many required subject areas	1
8. Required mathematics methods course	8
9. Require everyone to teach some mathematics during student teaching	1
10. Screening and preparation of cooperating teachers	2
11. Money	11
12. More staff	8
13. More contact with schools	7
14. Closer relation between content and methods	7
15. Scheduling content areas	5
16. Supervision	4
17. Attitude	3
18. More "hands-on" experience	6
19. University lab school	2
20. School placements	1
21. Too much content in methods	1
22. More communication among staff	1
23. Continue program into senior year	1
24. Demonstration classes	1
25. More content	11
26. No one wants to teach the content	1
27. Evaluation/revision of program	2
28. Heavy teaching load	1
29. Place value	1
30. ***	-
31. Strict state guidelines	2
32. Strengthen methods classes	1
33. Get rid of fear of teaching mathematics	1
34. More control of field experiences	1
35. Ability to handle discipline	1
36. Cooperation between mathematics and education	1
37. Content professors need more understanding of elementary teachers problems	1
38. Suitable methods textbook	1
39. Metric materials	1
40. Difference between mathematics taught in college and in the elementary schools	3

41. Methods classes too large	2
42. Professors need more contact with schools	2
43. No diagnosis and remediation	1
44. ***	-
45. Getting the graduates jobs	1
46. ***	-
47. ***	-
48. ***	-
49. CETE	1
50. NONE (combined with zero score)	2
51. Maintaining present pace	1
52. Lack of skills to utilize resources	1
53. Get kids to think	1
54. Surviving	1
55. More credit for methods courses	1

***These categories were either not listed as the most important problem or were subsets of other categories.

FEBRUARY 8, 1978

400 RECCDE VALUES + LAG VARIABLE
1600 IF/COMPUTE OPERATIONS

/5 GN 5-6 GO 7-8 GP 9-10 GQ 11-12 GR 13-14
GS 15-16 GU 17-18 WY 19-20

(4X,F1.0,2F4.0,6X,2F2.0,3F1.0,F3.0,F2.0,F3.0,F2.0,F3.0,F2.0,F3.0,F2.
2.0,F3.0,3F1.C,F2.0,11F1.0/4X,2F2.0,F3.0,F1.0,2F2.0,F3.0,F1.0,F2.0,F
F1.0,F2.0,F1.0,F2.0,F1.0,F2.0,F1.0,F2.0,F1.0,F2.0,F1.0,F2.0,F1.0,F2.0,F1.0,F2.
F2.0,F1.0,F2.0,F1.0,F2.0,F1.C,F2.0,F1.C,F2.0,F1.0,F2.0/F1.0,F2.0,F1.0,F2.0,
0,F1.0,F2.0,F1.0,F2.0,F1.0,F2.0,F1.0,F2.0,36F1.0,F2.0,4F1.0,F2.0,4F1
F4.0,F1.0,F4.0,F1.0,5F3.0,F2.0,F1.0,4F2.0,18F1.0,3F2.0/4X,8F2.0)

22

NCTM ELEMENTARY SURVEY

N OF CASES
VAR LABELS

UNKNOWN
A HAVE ADDITIONAL ADMISSION CRITERIA/
B OVERALL GRADE POINT AVERAGE REQUIRED/
C HIGH SCHOOL RANK OR AVERAGE/
F SPEECH CLEARANCE/
G WHO GIVES THE PERSONAL INTERVIEW?
H NUMBER OF FACULTY RECOMMENDATIONS/
I HAVE OTHER ADMISSION CRITERIA/
J CAN ELEMENTARY ED STUDENT MAJOR IN MATH?
K NO. OF ELEM. MATH MAJORS GRADUATE A YEAR/
L CONTENT1 FOR ELEM MATH MAJORS NOT OTHERS/
M UNIT VALUE FOR CONTENT COURSE 1/
N CONTENT2 FOR ELEM MATH MAJORS NOT OTHERS/
O UNIT VALUE FOR CONTENT COURSE 2/
P CONTENT3 FOR ELEM MATH MAJORS NOT OTHERS/
Q UNIT VALUE FOR CONTENT COURSE 3/
R CONTENT4 FOR ELEM MATH MAJORS NOT OTHERS/
S UNIT VALUE FOR CONTENT COURSE 4/
T OTHER CONTENT COURSE OF SAME VARIETY/
U UNIT VALUE OF OTHER CONTENT COURSE/
V METHODS1 FOR ELEM MATH MAJORS NOT OTHERS/
W UNIT VALUE FOR METHODS COURSE 1/
X METHODS2 FOR ELEM MATH MAJORS NOT OTHERS/
Y UNIT VALUE FOR METHODS COURSE 2/
Z DO YOU HAVE A THIRD SUCH METHODS COURSE?
AA DO YOU HAVE A FOURTH METHODS COURSE?
AB INSTITUTIONAL ORGANIZATION/
AC CONTENT CREDIT HRS REQ OF ALL EE MAJORS/
AD REQUIRED MATH CONTENT BEFORE METHODS/
AE REQ MATH CONTENT CONCURRENT WITH METHODS/
AF NO REQUIRED TIMING OF CONTENT-METHODS/
AG STATUS OF COURSE WITH ARITH FUNCTIONS/
AH STATUS OF COURSE CONTAINING ALGEBRA/
AI STATUS OF COURSE CONTAINING GEOMETRY/
AJ STATUS OF COURSE WITH PROB. AND STATS./
AK STATUS OF COURSE WITH COORD GEOM-VECTOR/
AL STATUS OF COURSE WITH COMPUTER USE/
AM STATUS OF COURSE WITH CALCULATOR MATH/
AN OTHER COURSE?/
AO MATH CONTENT COURSE1 FOR ALL ED STUDENT/
AP TEXTBOOK USED IN MATH CONTENT COURSE 1/
AQ UNIT VALUE FOR MATH CONTENT COURSE 1/
AR ARE INSTRUCTOR-MADE MATERIALS USED?/
AS MATH CONTENT COURSE2 FOR ALL ED STUDENT/
AT TEXTBOOK USED IN MATH CONTENT COURSE 2/
AU UNIT VALUE FOR MATH CONTENT COURSE 2/
AV INSTRUCTOR-CONSTRUCTED MATERIALS USED?
AW METHODS CREDIT HRS REQ OF ALL EE MAJORS/
AX ATTRIBUTE BLOCKS: HANDS-ON EXPERIENCE/
AY ATTRIBUTE BLOCKS: HANDS-ON CLOCK HOURS/
AZ ATTRIBUTE BLOCKS: USE IS DEMONSTRATED/
BA ATTRIBUTE BLOCKS: DEMO CLOCK HOURS/
BB GEOMETRIC SHAPES: HANDS-ON EXPERIENCE/
BC GEOMETRIC SHAPES: HANDS-ON CLOCK HOURS/

NCTM ELEMENTARY SURVEY

BD GEOMETRIC SHAPES: USE IS DEMONSTRATED/
 BE GEOMETRIC SHAPES: DEMO CLOCK HOURS/
 BF PLACE VALUE MATERIALS: HANDS-ON EXP/
 BG PV MATERIALS: HANDS-ON CLOCK HOURS/
 BH PLACE VALUE MATERIALS: USE DEMONSTRATED
 BI PV MATERIALS: DEMO CLOCK HOURS/
 BJ GEOBOARD: HANDS-ON EXPERIENCE/
 BK GEOBOARD: HANDS-ON CLOCK HOURS/
 BL GEOBOARD: USE IS DEMONSTRATED/
 BM GEOBOARD: DEMONSTRATION CLOCK HOURS/
 BN COUNTING MATERIALS: HANDS-ON EXPERIENCE
 BO COUNTING MATERIALS: HANDS-ON CLOCK HOUR
 BP COUNTING MATERIALS: USE IS DEMONSTRATED
 BQ COUNTING MATERIALS: DEMO CLOCK HOURS/
 BR COLORED RODS: HANDS-ON EXPERIENCE/
 BS COLORED RODS: HANDS-ON CLOCK HOURS/
 BT COLORED RODS: USE IS DEMONSTRATED/
 BU COLORED RODS: DEMONSTRATION CLOCK HOURS
 BV ABACUS: HANDS-ON EXPERIENCE/
 BW ABACUS: HANDS-ON CLOCK HOURS/
 BX ABACUS: USE IS DEMONSTRATED/
 GX ABACUS: DEMONSTRATION CLOCK HOURS/
 BZ HAND-HELD CALCULATOR: HANDS-ON EXP/
 CA HAND-HELD CALCULATOR: HANDS-ON CLOCK HR
 CB HAND-HELD CALCULATOR: USE DEMONSTRATED/
 CC HAND-HELD CALCULATOR: DEMO CLOCK HOURS/
 CD COMPUTER: HANDS-ON EXPERIENCE/
 CE COMPUTER: HANDS-ON CLOCK HOURS/
 CF COMPUTER: USE IS DEMONSTRATED/
 CG COMPUTER: DEMONSTRATION CLOCK HOURS/
 CH FILMSTRIPS: HANDS-ON EXPERIENCE/
 CI FILMSTRIPS: HANDS-ON CLOCK HOURS/
 CJ FILMSTRIPS: USE IS DEMONSTRATED/
 CK FILMSTRIPS: DEMONSTRATION CLOCK HOURS/
 CL OVERHEAD TRANSPARENCIES: HANDS-ON EXP/
 CM OH TRANSPARENCIES: HANDS-ON CLOCK HOURS
 CN OVERHEAD TRANSPARENCIES: DEMONSTRATED/
 CO OH TRANSPARENCIES: DEMO CLOCK HOURS/
 CP COMPUTATION GAMES: HANDS-ON EXPERIENCE/
 CQ COMPUTATION GAMES: HANDS-ON CLOCK HOURS
 CR COMPUTATION GAMES: USE IS DEMONSTRATED/
 CS COMPUTATION GAMES: DEMO CLOCK HOURS/
 CT FILMS: HANDS-ON EXPERIENCE/
 CU FILMS: HANDS-ON CLOCK HOURS/
 CV FILMS: USE IS DEMONSTRATED/
 CW FILMS: DEMONSTRATION CLOCK HOURS/
 CX OTHER NONPRINT MATERIAL AVAILABLE?/
 CY ORIGINAL MATHEMATICAL GAME REQUIRED?/
 CZ SUMMARIES OF JOURNAL ARTICLES REQUIRED?
 DA BOOK CRITIQUES REQUIRED? /
 DB SELF-CONTAINED LEARNING PACKAGE REQUIRED
 DC ORIGINAL DISCOVERY ACTIVITY REQUIRED?/
 DD RESOURCE OR IDEA FILE REQUIRED?/
 DE ARE THERE OTHER REQUIREMENTS?/

DF EMPHASIS ON LEARNING THEORIES/
 DG EMPHASIS ON LESSON PLANNING/
 DH EMPHASIS ON TEST ITEM CONSTRUCTION/
 DI EMPHASIS ON MANIPULATIVES-LABS IN MATH/
 DJ EMPHASIS ON MEDIA/
 DK EMPHASIS ON USE OF COMPUTERS/
 DL EMPHASIS ON USE OF CALCULATORS/
 DM EMPHASIS ON EXPOSURE TO NCTM ACTIVITIES/
 DN EMPHASIS ON EXPOSURE TO PROV-LOCAL ORGS/
 DO EMPHASIS ON PROBLEMS IN SPECIAL ED/
 DP EMPHASIS ON PROBLEMS IN URBAN EDUCATION/
 DQ EMPHASIS ON PROBLEMS IN CAREER ED/
 DR EMPHASIS ON PROBLEMS WITH SLOW-GIFTED/
 DS EMPHASIS ON PROBLEMS IN INDIV INSTRUCT/
 DT EMPHASIS ON ANALYSIS OF VIDEO TAPES/
 DU EMPHASIS ON PENCIL-PAPER SIMULATIONS/
 DV EMPHASIS ON MICRO-TEACHING TO PEERS/
 DW OTHER EMPHASIZED TOPICS?/
 DX COURSE STATUS: DYNAMICS OF GROUP LEARN/
 DY COURSE STATUS: ED PSYCH STATISTICS/
 DZ COURSE STATUS: PHILOSOPHY OF EDUCATION/
 EA COURSE STATUS: SOCIOLOGY OF EDUCATION/
 EB COURSE STATUS: THEORIES OF LEARNING/
 EC COURSE STATUS: HISTORY OF EDUCATION/
 ED OBSERVATION IS A REQUIRED FIELD ACTIVITY/
 EE REQUIRED FIELD ACTIVITY: 1-1 TUTORING?/
 EF REQ. FIELD ACT.: SMALL GROUP INSTRUCTION/
 EG ARE THERE OTHERS?/
 EH OBSERVATION: CLOCK HOURS/
 EI OBSERVATION: GRADE LEVELS/
 EJ OBSERVATION: SUPERVISED BY GRAD STUDENT/
 EK OBSERVATION: SUPERVISED BY COLL FACULTY/
 EL OBSERVATION: SUPERVISED BY SCHOOL FAC/
 EM 1-1 TUTORING: CLOCK HOURS/
 EN 1-1 TUTORING: GRADE LEVELS/
 EO 1-1 TUTORING: SUPERVISED BY GRAD STUDENT/
 EP 1-1 TUTORING: SUPERVISED BY COLL FACULTY/
 GW 1-1 TUTORING: SUPERVISED BY SCHOOL FAC/
 ER SMALL GROUP INSTRUCTION-SGI: CLOCK HOURS/
 ES SGI: GRADE LEVELS/
 ET SGI: SUPERVISED BY GRADUATE STUDENT/
 EU SGI: SUPERVISED BY COLLEGE FACULTY/
 EV SGI: SUPERVISED BY PUBLIC SCHOOL FACULTY/
 EW OTHER: CLOCK HOURS/
 EX OTHER: GRADE LEVELS/
 EY OTHER: SUPERVISED BY GRADUATE STUDENT/
 EZ OTHER: SUPERVISED BY COLLEGE FACULTY/
 FA OTHER: SUPERVISED BY PUBLIC SCHOOL FAC/
 FB ST PREREQUISITE-STP: PASS MATH ED COURSE/
 FC STP: OVERALL GRADE POINT AVERAGE/
 FD GRADE POINT AVERAGE CUT-OFF SCORE/
 FE STP: GRADE POINT AVERAGE IN MAJOR/
 FF MAJOR GRADE POINT AVERAGE CUT-OFF SCORE/
 FG ARE THERE OTHER STP'S?/

NCTM ELEMENTARY SURVEY

FH STUDENT TEACHING HOURS BEFORE METHODS/
 FI STUDENT TEACHING HOURS DURING METHODS/
 FJ STUDENT TEACHING HOURS UPON GRADUATION/
 FK ST HOURS SPENT TEACHING MATHEMATICS/
 FL HOURS OF MATH TEACHING REQUIRED IN ST/
 FM ST: NUMBER OF WEEKS/
 FN ST: NUMBER OF HOURS PER DAY IN LAST WEEK/
 FO ST SUPERVISION-STIS: # VISITS BY MATH ED/
 FP STS: NUMBER OF VISITS BY NONMATH ED/
 FQ STS: NUMBER OF VISITS BY GRAD STUDENT/
 FR STS: AVERAGE LENGTH OF VISIT/
 FS IS THE MATH CONTENT RELATED TO SCIENCE?
 FT ARE THE MATH METHODS RELATED TO SCIENCE?
 FU HAS YOUR PROV COMMITTED ITSELF TO CBTE?
 FV EXTENT OF CBTE IN YOUR PROGRAM?/
 FW DOES YOUR PROGRAM PREP PRE-SCHOOL CERT?
 FX DOES YOUR PROGRAM PREP K-3 CERTIFICATION?
 FY DOES YOUR PROGRAM PREP 4-6 CERTIFICATION?
 FZ DOES YOUR PROGRAM PREP K-6 CERTIFICATION?
 GA DO YOU HAVE OTHER CERTIFICATION OPTIONS?
 GB IS A PRE-SCHOOL OPTION AVAILABLE?/
 GC IS A MIDDLE SCHOOL OPTION AVAILABLE?/
 GD KINDERGARTEN-PRIMARY OPTION AVAILABLE?/
 GV IS A JUNIOR SECONDARY OPTION AVAILABLE?
 GP ARE OTHER OPTIONS AVAILABLE?/
 GG EVALUATION: FOLLOW-UP GRADUATES/
 GH EVALUATION: WRITTEN FEEDBACK OF GRADS/
 GI EVALUATION: SURVEY OF SCHOOL TEACHERS/
 GJ EVALUATION: OTHER METHODS?/
 GK METHODS A: YEARS SINCE LAST TAUGHT ELEM/
 GL METHODS B: YEARS SINCE LAST TAUGHT ELEM/
 GM METHODS C: YEARS SINCE LAST TAUGHT ELEM/
 GN CONTENT A: YEARS SINCE LAST TAUGHT ELEM/
 GO CONTENT B: YEARS SINCE LAST TAUGHT ELEM/
 GP CONTENT C: YEARS SINCE LAST TAUGHT ELEM/
 GQ FIRST UNUSUAL PRACTICE LISTED/
 GR SECOND UNUSUAL PRACTICE LISTED/
 GS THIRD UNUSUAL PRACTICE LISTED/
 GU SINGLE MOST IMPORTANT ASPECT OF PROGRAM/
 WY GREATEST NEED IN PROGRAM/
 A, I, J, Z, AA, AD, AE, AF, AN, AR, AV, AX, AZ, BB, BD, B
 BP, BR, BT, BV, BX, BZ, CB, CD, CF, CH, CJ, CL, CN, CP,
 CX TO DE, DW, ED TO EG, EJ TO EL, EC TO GW, ET
 FE, FG, FS TO FU, FW, GB, GG TO GJ (0) NO (1) YES/
 AB (1) SEMESTER SYSTEM (2) TRIMESTER SYSTEM (3)
 (4) ONE YEAR TERM/
 AG TO AH (1) NOT STUDIED (2) RECOMMENDED (3) RE
 DP TO DV, FV (0) NONE (1) LITTLE (2) MODERATE (3)
 DY TO EC (0) NOT SUGGESTED (1) RECOMMENDED (2)
 EL EN, ES, EX (1) K-3 (2) 4-8 (3) OTHER MIX OF K-
 F (0) NONE (1) SPEECH CLINIC (2) SPEECH DEPARTM
 (4) TEST (5) INTERVIEW (6) OBSERVE SPEECH (7) ADV
 (9) SPEECH THERAPIST/
 G (0) NO ONE (1) DEPARTMENT ADVISOR (2) EDUCATI

VALUE LABELS

NCTM ELEMENTARY SURVEY

PRINT FORMATS
FREQUENCIES
OPTIONS

(3) EDUCATION COMMITTEE (4) TEACHER ED DIRECT
(6) STUDENT T DIRECTOR (7) DEAN OF EDUCATION
(9) SECONDARY EDUCATION/
FX, GC (0) NO (2) YES/FY, GD (0) NC (3) YES/FZ, GV
GA, GF (0) NO (5) YES/
B (2), C (2), FD (2), FF (2)
GENERAL=ALL
3, 6, 9

GIVEN WORKSPACE ALLOWS FOR 7000 TOTAL VALUES AND 700 LABELED VALUES PER

READ INPUT DATA

AFTER READING 22 CASES FROM SUBFILE NONAME , END OF FILE WAS ENCOUNTERED

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FILE - NONAME - CREATED 09/27/78

PAGE 1

NCTM ELEMENTARY SURVEY

A HAVE ADDITIONAL ADMISSION CRITERIA

CATEGORY LABEL	CCODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	12	54.5	54.5	54.5
YES	1.	10	45.5	45.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES	22	MISSING CASES	0
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NCTM ELEMENTARY SURVEY

B OVERALL GRADE POINT AVERAGE REQUIRED

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.0	15	68.2	68.2	68.2
	2.00	2	9.1	9.1	77.3
	2.50	2	9.1	9.1	86.4
	55.00	1	4.5	4.5	90.9
	65.00	1	4.5	4.5	95.5
	68.00	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

C HIGH SCHCOL RANK OR AVERAGE

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.0	19	86.4	86.4	86.4
	60.00	2	9.1	9.1	95.5
	70.00	1	4.5	4.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

P SPEECH CLEARANCE

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	-0.	17	77.3	77.3	77.3
SPEECH CLINIC	1.	1	4.5	4.5	81.8
SPEECH DEPARTMENT	2.	3	13.6	13.6	95.5
COURSE	3.	1	4.5	4.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

G WHO GIVES THE PERSONAL INTERVIEW?

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO ONE	-0.	12	54.5	54.5	54.5
DEPARTMENT ADVISOR	1.	2	9.1	9.1	63.6
EDUCATION FACULTY	2.	4	18.2	18.2	81.8
EDUCATION COMMITTEE	3.	1	4.5	4.5	86.4
TEACHER ED DIRECTOR	4.	2	9.1	9.1	95.5
DEAN OF EDUCATION	7.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

H NUMBER OF FACULTY RECOMMENDATIONS

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	18	81.8	81.8	81.8
	1.	1	4.5	4.5	86.4
	2.	2	9.1	9.1	95.5
	3.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

I HAVE OTHER ADMISSION CRITERIA

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	16	72.7	72.7	72.7
YES	1.	6	27.3	27.3	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

J CAN ELEMENTARY ED STUDENT MAJOR IN MATH?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	11	50.0	50.0	50.0
YES	1.	11	50.0	50.0	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

K NO. OF ELEM. MATH MAJORS GRADUATE A YEAR

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	14	63.6	63.6	63.6
	3.	1	4.5	4.5	68.2
	10.	3	13.6	13.6	81.8
	15.	1	4.5	4.5	86.4
	25.	2	9.1	9.1	95.5
	50.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

L CONTENT1 FOR ELEM MATH MAJORS NOT OTHERS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	12	54.5	54.5	54.5
	1.	3	13.6	13.6	68.2
	5.	1	4.5	4.5	72.7
	7.	1	4.5	4.5	77.3
	8.	1	4.5	4.5	81.8
	10.	2	9.1	9.1	90.9
	13.	1	4.5	4.5	95.5
	18.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

M UNIT VALUE FOR CONTENT COURSE 1

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	15	68.2	68.2	68.2
	1.	1	4.5	4.5	72.7
	3.	4	18.2	18.2	90.9
	6.	1	4.5	4.5	95.5
	9.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

N CONTENT2 FOR ELEM MATH MAJCES NOT OTHERS

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	15	68.2	68.2	68.2
	2.	1	4.5	4.5	72.7
	6.	2	9.1	9.1	81.8
	9.	1	4.5	4.5	86.4
	13.	1	4.5	4.5	90.9
	14.	1	4.5	4.5	95.5
	18.	1	4.5	4.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

O UNIT VALUE FOR CONTENT COURSE 2

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	16	72.7	72.7	72.7
	1.	2	9.1	9.1	81.8
	3.	4	18.2	18.2	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

P CONTENT3 FOR ELEM MATH MAJORS NOT OTHERS

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	15	68.2	68.2	68.2
	3.	1	4.5	4.5	72.7
	6.	2	9.1	9.1	81.8
	11.	1	4.5	4.5	86.4
	13.	1	4.5	4.5	90.9
	15.	1	4.5	4.5	95.5
	22.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

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NCTM ELEMENTARY SURVEY

Q UNIT VALUE FOR CONTENT COURSE 3

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	15	68.2	68.2	68.2
	1.	1	4.5	4.5	72.7
	2.	1	4.5	4.5	77.3
	3.	4	18.2	18.2	95.5
	6.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

R CONTENT4 FOR ELEM MATH MAJORS NOT OTHERS

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	16	72.7	72.7	72.7
	4.	1	4.5	4.5	77.3
	8.	1	4.5	4.5	81.8
	10.	1	4.5	4.5	86.4
	12.	1	4.5	4.5	90.9
	13.	1	4.5	4.5	95.5
	16.	1	4.5	4.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

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NCTM ELEMENTARY SURVEY

S UNIT VALUE FOR CONTENT COURSE 4

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	16	72.7	72.7	72.7
	1.	1	4.5	4.5	77.3
	3.	5	22.7	22.7	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

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NCTM ELEMENTARY SURVEY

T OTHER CONTENT COURSE OF SAME VARIETY

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	20	90.9	90.9	90.9
	5.	1	4.5	4.5	95.5
	17.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

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NCTM ELEMENTARY SURVEY

U UNIT VALUE OF OTHER CONTENT COURSE

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	21	95.5	95.5	95.5
	3.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

V METHODS1 FOR ELEM MATH MAJORS NOT OTHERS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	14	63.6	63.6	63.6
	1.	1	4.5	4.5	68.2
	4.	1	4.5	4.5	72.7
	5.	3	13.6	13.6	86.4
	7.	1	4.5	4.5	90.9
	8.	1	4.5	4.5	95.5
	10.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

W UNIT VALUE FOR METHODS CCOURSE 1

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	16	72.7	72.7	72.7
	1.	1	4.5	4.5	77.3
	2.	1	4.5	4.5	81.8
	3.	2	9.1	9.1	90.9
	6.	1	4.5	4.5	95.5
	900.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

X METHODS2 FOR ELEM MATH MAJORS NOT OTHERS

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	18	81.8	81.8	81.8
	2.	1	4.5	4.5	86.4
	6.	1	4.5	4.5	90.9
	7.	1	4.5	4.5	95.5
	30.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

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NCTM ELEMENTARY SURVEY

Y UNIT VALUE FOR METHCDS COURSE 2

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	19	86.4	86.4	86.4
	1.	1	4.5	4.5	90.9
	3.	2	9.1	9.1	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

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NCTM ELEMENTARY SURVEY

Z DO YOU HAVE A THIRD SUCH METHODS COURSE?

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	21	95.5	95.5	95.5
	3.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

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NCTE ELEMENTARY SURVEY

AA

DO YOU HAVE A FOURTH METHODS COURSE?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	22	100.0	100.0	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

AB INSTITUTIONAL ORGANIZATION

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
SEMESTER SYSTEM	1.	11	50.0	50.0	50.0
TRIMESTER SYSTEM	2.	1	4.5	4.5	54.5
ONE YEAR TERM	4.	10	45.5	45.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

AC CONTENT CREDIT HRS REQ OF ALL EE MAJORS

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	0.	10	45.5	45.5	45.5
	1.	1	4.5	4.5	50.0
	2.	1	4.5	4.5	54.5
	3.	2	9.1	9.1	63.6
	6.	4	18.2	18.2	81.8
	9.	1	4.5	4.5	86.4
	12.	3	13.6	13.6	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES 0

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NCTM ELEMENTARY SURVEY

AD

REQUIRED MATH CONTENT BEFORE METHCDS

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	17	77.3	77.3	77.3
YES	1.	5	22.7	22.7	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

AE REQ MATH CONTENT CCNCURRENT WITH METHODS

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	8	36.4	36.4	36.4
YES	1.	14	63.6	63.6	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

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NCTM ELEMENTARY SURVEY

AF NO REQUIRED TIMING OF CCNTENT-METHODS

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	13	59.1	59.1	59.1
YES	1.	9	40.9	40.9	100.0
		-----	-----	-----	
	TCTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

AG

STATUS OF COURSE WITH ARITH FUNCTIONS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	3	13.6	13.6	13.6
NOT STUDIED	1.	2	9.1	9.1	22.7
RECOMMENDED	2.	6	27.3	27.3	50.0
REQUIRED	3.	11	50.0	50.0	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

AH

STATUS OF COURSE CONTAINING ALGEBRA

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	4	18.2	18.2	18.2
NOT STUDIED	1.	3	13.6	13.6	31.8
RECOMMENDED	2.	6	27.3	27.3	59.1
REQUIRED	3.	9	40.9	40.9	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

AI STATUS OF COURSE CONTAINING GEOMETRY

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	2	9.1	9.1	9.1
NOT STUDIED	1.	3	13.6	13.6	22.7
RECOMMENDED	2.	8	36.4	36.4	59.1
REQUIRED	3.	9	40.9	40.9	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

AJ STATUS OF COURSE WITH PROB. AND STATS.

CATEGORY LABEL	CCODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	7	31.8	31.8	31.8
NOT STUDIED	1.	5	22.7	22.7	54.5
RECOMMENDED	2.	6	27.3	27.3	81.8
REQUIRED	3.	4	18.2	18.2	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

AK STATUS OF COURSE WITH COORD GEOM-VECTORS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	9	40.9	40.9	40.9
NOT STUDIED	1.	6	27.3	27.3	68.2
RECOMMENDED	2.	5	22.7	22.7	90.9
REQUIRED	3.	2	9.1	9.1	100.0
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AL STATUS OF COURSE WITH COMPUTER USE

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	9	40.9	40.9	40.9
NOT STUDIED	1.	10	45.5	45.5	86.4
RECOMMENDED	2.	3	13.6	13.6	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

AM STATUS OF COURSE WITH CALCULATOR MATH

CATEGORY LABEL	CCODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	5	22.7	22.7	22.7
NOT STUDIED	1.	12	54.5	54.5	77.3
RECOMMENDED	2.	5	22.7	22.7	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

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NCTM ELEMENTARY SURVEY

AN OTHER COURSE?

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	16	72.7	72.7	72.7
YES	1.	6	27.3	27.3	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

AO

MATH CONTENT COURSE1 FOR ALL ED STUDENTS

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	6	27.3	27.3	27.3
	1.	1	4.5	4.5	31.8
	2.	2	9.1	9.1	40.9
	4.	1	4.5	4.5	45.5
	5.	2	9.1	9.1	54.5
	7.	2	9.1	9.1	63.6
	8.	2	9.1	9.1	72.7
	11.	5	22.7	22.7	95.5
	12.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

AP TEXTBOOK USED IN MATH CONTENT COURSE 1

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	15	68.2	68.2	68.2
	1.	1	4.5	4.5	72.7
	2.	1	4.5	4.5	77.3
	3.	1	4.5	4.5	81.8
	4.	1	4.5	4.5	86.4
	5.	1	4.5	4.5	90.9
	7.	1	4.5	4.5	95.5
	9.	1	4.5	4.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

AQ UNIT VALUE FOR MATH CONTENT COURSE 1

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	13	59.1	59.1	59.1
	1.	1	4.5	4.5	63.6
	3.	6	27.3	27.3	90.9
	6.	1	4.5	4.5	95.5
	20.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AR ARE INSTRUCTOR-MADE MATERIALS USED?

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	16	72.7	72.7	72.7
YES	1.	6	27.3	27.3	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

AS MATH CONTENT COURSE2 FOR ALL ED STUDENTS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	16	72.7	72.7	72.7
	3.	2	9.1	9.1	81.8
	6.	1	4.5	4.5	86.4
	9.	2	9.1	9.1	95.5
	10.	1	4.5	4.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

AT TEXTBOOK USED IN MATH CONTENT COURSE 2

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	19	86.4	86.4	86.4
	2.	1	4.5	4.5	90.9
	3.	1	4.5	4.5	95.5
	6.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

AU UNIT VALUE FOR MATH CONTENT COURSE 2

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	17	77.3	77.3	77.3
	3.	3	13.6	13.6	90.9
	6.	1	4.5	4.5	95.5
	8.	1	4.5	4.5	100.0
	TCTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

AV INSTRUCTOR-CONSTRUCTED MATERIALS USED?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	19	86.4	86.4	86.4
YES	1.	3	13.6	13.6	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

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NCTM ELEMENTARY SURVEY

AW METHODS CREDIT HRS REQ OF ALL EE MAJORS

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	0.	5	22.7	22.7	22.7
	2.	5	22.7	22.7	45.5
	3.	8	36.4	36.4	81.8
	6.	2	9.1	9.1	90.9
	9.	2	9.1	9.1	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

AX ATTRIBUTE BLOCKS: HANDS-ON EXPERIENCE

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	10	45.5	45.5	45.5
YES	1.	12	54.5	54.5	100.0
	TCTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

AY ATTRIBUTE BLOCKS: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	13	59.1	59.1	59.1
	1.	5	22.7	22.7	81.8
	2.	2	9.1	9.1	90.9
	3.	1	4.5	4.5	95.5
	6.	1	4.5	4.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

A2 ATTRIBUTE BLOCKS: USE IS DEMONSTRATED

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	11	50.0	50.0	50.0
YES	1.	11	50.0	50.0	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

BA ATTRIBUTE BLOCKS: DEMO CICC# HOURS

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	18	81.8	81.8	81.8
	0.	1	4.5	4.5	86.4
	1.	3	13.6	13.6	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

BB GEOMETRIC SHAPES: HANDS-ON EXPERIENCE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	4	18.2	18.2	18.2
YES	1.	18	81.8	81.8	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTB ELEMENTARY SURVEY

BC

GEOMETRIC SHAPES: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	8	36.4	36.4	36.4
	1.	1	4.5	4.5	40.9
	1.	5	22.7	22.7	63.6
	2.	3	13.6	13.6	77.3
	3.	1	4.5	4.5	81.8
	4.	2	9.1	9.1	90.9
	5.	1	4.5	4.5	95.5
	6.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

BD GEOMETRIC SHAPES: USE IS DEMONSTRATED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	9	40.9	40.9	40.9
YES	1.	13	59.1	59.1	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

BE GEOMETRIC SHAPES: DEMO CLOCK HOURS

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	17	77.3	77.3	77.3
	1.	2	9.1	9.1	86.4
	2.	3	13.6	13.6	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

MCTM ELEMENTARY SURVEY

BP PLACE VALUE MATERIALS: HANDS-CN EXP

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	3	13.6	13.6	13.6
YES	1.	19	86.4	86.4	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

BG

PV MATERIALS: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	10	45.5	45.5	45.5
	1.	1	4.5	4.5	50.0
	1.	5	22.7	22.7	72.7
	2.	3	13.6	13.6	86.4
	3.	1	4.5	4.5	90.9
	4.	1	4.5	4.5	95.5
	15.	1	4.5	4.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

BH PLACE VALUE MATERIALS: USE DEMONSTRATED

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	12	54.5	54.5	54.5
YES	1.	10	45.5	45.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

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NCTM ELEMENTARY SURVEY

BI PV MATERIALS: DEMO CLOCK HOURS

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	15	68.2	68.2	68.2
	1.	5	22.7	22.7	90.9
	2.	2	9.1	9.1	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

BJ GEOBOARD:HANDS-ON EXPERIENCE

CATEGORY LABEL	CCODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	5	22.7	22.7	22.7
YES	1.	17	77.3	77.3	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

BK GEOBOARD: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	11	50.0	50.0	50.0
	1.	5	22.7	22.7	72.7
	2.	5	22.7	22.7	95.5
	3.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

BL GEOBOARD: USE IS DEMONSTRATED

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	9	40.9	40.9	40.9
YES	1.	13	59.1	59.1	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

BM

GEOCARD: DEMONSTRATION CLOCK HOURS

CATEGORY LABEL	CCDE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	18	81.8	81.8	81.8
	0.	1	4.5	4.5	86.4
	1.	3	13.6	13.6	100.0
	TCTAL	22	100.0	100.0	
VALID CASES	22	MISSING CASES	0		

NCTM ELEMENTARY SURVEY

BN COUNTING MATERIALS: HANDS-CN EXPERIENCE

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	4	18.2	18.2	18.2
YES	1.	18	81.8	81.8	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

MCTM ELEMENTARY SURVEY

BO

COUNTING MATERIALS: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	10	45.5	45.5	45.5
	1.	1	4.5	4.5	50.0
	1.	6	27.3	27.3	77.3
	2.	3	13.6	13.6	90.9
	5.	1	4.5	4.5	95.5
	6.	1	4.5	4.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

BP COUNTING MATERIALS: USE IS DEMONSTRATED

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	11	50.0	50.0	50.0
YES	1.	11	50.0	50.0	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

NCTM ELEMENTARY SURVEY

BQ COUNTING MATERIALS: DEMO CLOCK HOURS

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	16	72.7	72.7	72.7
	1.	6	27.3	27.3	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

BR COLORED RODS: HANDS-ON EXPERIENCE

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	9	40.9	40.9	40.9
YES	1.	13	59.1	59.1	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

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NCTM ELEMENTARY SURVEY

BS COLORED RODS: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CCDE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	15	68.2	68.2	68.2
	1.	2	9.1	9.1	77.3
	1.	2	9.1	9.1	86.4
	2.	2	9.1	9.1	95.5
	3.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

BT COLORED RODS: USE IS DEMONSTRATED

CATEGORY LABEL	CCODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	14	63.6	63.6	63.6
YES	1.	8	36.4	36.4	100.0
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

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FILE - NONAME

- CREATED 09/27/78

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NCTM ELEMENTARY SURVEY

BU

COLORED RODS: DEMONSTRATION CLOCK HOURS

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	21	95.5	95.5	95.5
	1.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

BV ABACUS: HANDS-ON EXPERIENCE

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	8	36.4	36.4	36.4
YES	1.	14	63.6	63.6	100.0
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

NCTM ELEMENTARY SURVEY

BW ABACUS: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	13	59.1	59.1	59.1
	1.	2	9.1	9.1	68.2
	1.	4	18.2	18.2	86.4
	2.	3	13.6	13.6	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

BX ABACUS: USE IS DEMONSTRATED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	11	50.0	50.0	50.0
YES	1.	11	50.0	50.0	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

NCTM ELEMENTARY SURVEY

GX ABACUS: DEMCNSTRATION CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	20	90.9	90.9	90.9
	1.	2	9.1	9.1	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

BZ HAND-HELD CALCULATOR: HANDS-ON EXP

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	9	40.9	40.9	40.9
YES	1.	13	59.1	59.1	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

CA HAND-HELD CALCULATOR: HANDS-ON CLOCK HRS

CATEGORY LABEL	CCODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	13	59.1	59.1	59.1
	1.	2	9.1	9.1	68.2
	1.	6	27.3	27.3	95.5
	2.	1	4.5	4.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

CB HAND-HELD CALCULATOR: USE DEMCNSTRATED

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	15	68.2	68.2	68.2
YES	1.	7	31.8	31.8	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

CC HAND-HELD CALCULATOR: DEMO CLOCK HOURS

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	22	100.0	100.0	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

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NCTM ELEMENTARY SURVEY

CD COMPUTER: HANDS-ON EXPERIENCE

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	19	86.4	86.4	86.4
YES	1.	3	13.6	13.6	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

CE COMPUTER: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	20	90.9	90.9	90.9
	1.	1	4.5	4.5	95.5
	3.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

CF COMPUTER: USE IS DEMONSTRATED

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	19	86.4	86.4	86.4
YES	1.	3	13.6	13.6	100.0
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CG COMPUTER: DEMONSTRATION CLOCK HOURS

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	21	95.5	95.5	95.5
	3.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

CH FILMSTRIPS: HANDS-ON EXPERIENCE

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	14	63.6	63.6	63.6
YES	1.	8	36.4	36.4	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

CI FILMSTRIPS: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CCDE	ABSOLUTE FFEQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	18	81.8	81.8	81.8
	1.	1	4.5	4.5	86.4
	1.	3	13.6	13.6	100.0
		----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

CJ FILMSTRIPS: USE IS DEMONSTRATED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	15	68.2	68.2	68.2
YES	1.	7	31.8	31.8	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

CK FILMSTRIPS: DEMONSTRATION CLOCK HOURS

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	20	90.9	90.9	90.9
	1.	1	4.5	4.5	95.5
	2.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

CL OVERHEAD TRANSPARENCIES: HANDS-ON EXP

CATEGORY LABEL	CCDE	ABSOLUTE FFREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	12	54.5	54.5	54.5
YES	1.	10	45.5	45.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

CM CH TRANSPARENCIES: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	17	77.3	77.3	77.3
	1.	1	4.5	4.5	81.8
	1.	1	4.5	4.5	86.4
	2.	1	4.5	4.5	90.9
	5.	1	4.5	4.5	95.5
	12.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

CN OVERHEAD TRANSPARENCIES: DEMONSTRATED

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	11	50.0	50.0	50.0
YES	1.	11	50.0	50.0	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

CO CH TRANSPARENCIES: DEMO CLOCK HOURS

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	15	68.2	68.2	68.2
	1.	3	13.6	13.6	81.8
	2.	2	9.1	9.1	90.9
	4.	1	4.5	4.5	95.5
	8.	1	4.5	4.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

CP COMPUTATION GAMES: HANDS-ON EXPERIENCE

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	8	36.4	36.4	36.4
YES	1.	14	63.6	63.6	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

CQ

COMPUTATION GAMES: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	12	54.5	54.5	54.5
	1.	4	18.2	18.2	72.7
	2.	5	22.7	22.7	95.5
	5.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

CR COMPUTATION GAMES: USE IS DEMONSTRATED

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	16	72.7	72.7	72.7
YES	1.	6	27.3	27.3	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

CS

COMPUTATION GAMES: DEMO CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	21	95.5	95.5	95.5
	2.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	
VALID CASES	22				
		MISSING CASES	0		

NCTM ELEMENTARY SURVEY

CT FILMS: HANDS-ON EXPERIENCE

CATEGORY LABEL	CCDE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	13	59.1	59.1	59.1
YES	1.	9	40.9	40.9	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

CU FILMS: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CCDE	ABSOLUTE FFREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	17	77.3	77.3	77.3
	1.	2	9.1	9.1	86.4
	2.	3	13.6	13.6	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

CV FILMS: USE IS DEMONSTRATED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	16	72.7	72.7	72.7
YES	1.	6	27.3	27.3	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

CW

FIIMS: DEMONSTRATION CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	20	90.9	90.9	90.9
	1.	1	4.5	4.5	95.5
	2.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

CX OTHER NCNPRINT MATERIAL AVAILABLE?

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	14	63.6	63.6	63.6
YES	1.	8	36.4	36.4	100.0
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CY ORIGINAL MATHEMATICAL GAME REQUIRED?

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	10	45.5	45.5	45.5
YES	1.	12	54.5	54.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

CZ SUMMARIES OF JOURNAL ARTICLES REQUIRED?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	11	50.0	50.0	50.0
YES	1.	11	50.0	50.0	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

DA BOOK CRITIQUES PEQUIRED?

CATEGORY LABEL	CCDE	ABSOLUTE PFEQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	21	95.5	95.5	95.5
YES	1.	1	4.5	4.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DB SELFCONTAINED LEARNING PACKAGE REQUIRED?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	14	63.6	63.6	63.6
YES	1.	8	36.4	36.4	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

DC ORIGINAL DISCOVERY ACTIVITY REQUIRED?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	11	50.0	50.0	50.0
YES	1.	11	50.0	50.0	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

DD RESOURCE OR IDEA FILE REQUIRED?

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	9	40.9	40.9	40.9
YES	1.	13	59.1	59.1	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DE ARE THERE OTHER REQUIPEMENTS?

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	10	45.5	45.5	45.5
YES	1.	12	54.5	54.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

DP EMPHASIS ON LEARNING THEORIES

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
LITTLE	1.	8	36.4	36.4	36.4
MODERATE	2.	11	50.0	50.0	86.4
EXTENSIVE	3.	3	13.6	13.6	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

DG EMPHASIS ON LESSON PLANNING

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
LITTLE	1.	5	22.7	22.7	22.7
MODERATE	2.	8	36.4	36.4	59.1
EXTENSIVE	3.	9	40.9	40.9	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

DH EMPHASIS ON TEST ITEM CONSTRUCTION

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	0.	7	31.8	31.8	31.8
LITTLE	1.	10	45.5	45.5	77.3
MODERATE	2.	4	18.2	18.2	95.5
EXTENSIVE	3.	1	4.5	4.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

DI EMPHASIS ON MANIPULATIVES-LABS IN MATH

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
MODERATE	2.	9	40.9	40.9	40.9
EXTENSIVE	3.	13	59.1	59.1	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

DJ EMPHASIS ON MEDIA

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	0.	1	4.5	4.5	4.5
LITTLE	1.	6	27.3	27.3	31.8
MODERATE	2.	11	50.0	50.0	81.8
EXTENSIVE	3.	4	18.2	18.2	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

DK EMPHASIS ON USE OF COMPUTERS

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	0.	16	72.7	72.7	72.7
LITTLE	1.	6	27.3	27.3	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DL EMPHASIS ON USE OF CALCULATORS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	0.	5	22.7	22.7	22.7
LITTLE	1.	12	54.5	54.5	77.3
MODERATE	2.	5	22.7	22.7	100.0
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DM EMPHASIS ON EXPOSURE TO NCTM ACTIVITIES

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	0.	1	4.5	4.5	4.5
LITTLE	1.	7	31.8	31.8	36.4
MODERATE	2.	10	45.5	45.5	81.8
EXTENSIVE	3.	4	18.2	18.2	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

DN EMPHASIS ON EXPOSURE TO PCRV-LOCAL ORGS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	-0.	3	13.6	13.6	13.6
LITTLE	1.	12	54.5	54.5	68.2
MODERATE	2.	6	27.3	27.3	95.5
EXTENSIVE	3.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

DO EMPHASIS ON PROBLEMS IN SPECIAL ED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	0.	8	36.4	36.4	36.4
LITTLE	1.	11	50.0	50.0	86.4
MODERATE	2.	3	13.6	13.6	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTE ELEMENTARY SURVEY

DP EMPHASIS ON PROBLEMS IN URBAN EDUCATION

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	0.	17	77.3	77.3	77.3
LITTLE	1.	3	13.6	13.6	90.9
MODERATE	2.	2	9.1	9.1	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

DQ EMPHASIS ON PROBLEMS IN CAREER ED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	0.	17	77.3	77.3	77.3
LITTLE	1.	4	18.2	18.2	95.5
MODERATE	2.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTE ELEMENTARY SURVEY

DB EMPHASIS ON PROBLEMS WITH SLOW-GIFTED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	0.	4	18.2	18.2	18.2
LITTLE	1.	11	50.0	50.0	68.2
MODERATE	2.	7	31.8	31.8	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

DS EMPHASIS ON PROBLEMS IN INDIV INSTRUCT

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	0.	2	9.1	9.1	9.1
LITTLE	1.	7	31.8	31.8	40.9
MODERATE	2.	11	50.0	50.0	90.9
EXTENSIVE	3.	2	9.1	9.1	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

DT EMPHASIS ON ANALYSIS OF VIDEO TAPES

CATEGORY LABEL	CCDE	ABSOLUTE FFREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	0.	11	50.0	50.0	50.0
LITTLE	1.	7	31.8	31.8	81.8
MODERATE	2.	4	18.2	18.2	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DU EMPHASIS ON PENCIL-PAPER SIMULATIONS

CATEGORY LABEL	CCODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	0.	11	50.0	50.0	50.0
LITTLE	1.	6	27.3	27.3	77.3
MODEBATE	2.	4	18.2	18.2	95.5
EXTENSIVE	3.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

DV EMPHASIS ON MICRO-TEACHING TO PEERS

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NCNE	0.	9	40.9	40.9	40.9
LITTLE	1.	8	36.4	36.4	77.3
MODERATE	2.	2	9.1	9.1	86.4
EXTENSIVE	3.	3	13.6	13.6	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

DW OTHER EMPHASIZED TOPICS?

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	19	86.4	86.4	86.4
YES	1.	3	13.6	13.6	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

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NCTM ELEMENTARY SURVEY

DX

COURSE STATUS: DYNAMICS OF GROUP LEARN

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NOT SUGGESTED	0.	8	36.4	36.4	36.4
RECOMMENDED	1.	8	36.4	36.4	72.7
REQUIRED	2.	6	27.3	27.3	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

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NCTM ELEMENTARY SURVEY

DY COURSE STATUS: ED PSYCH STATISTICS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NOT SUGGESTED	0.	10	45.5	45.5	45.5
RECOMMENDED	1.	3	13.6	13.6	59.1
REQUIRED	2.	9	40.9	40.9	100.0
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DZ COURSE STATUS: PHILOSOPHY OF EDUCATION

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NOT SUGGESTED	-0.	1	4.5	4.5	4.5
RECOMMENDED	1.	5	22.7	22.7	27.3
REQUIRED	2.	16	72.7	72.7	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

EA COURSE STATUS: SOCIOLOGY OF EDUCATION

CATEGORY LABEL	CCODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NOT SUGGESTED	0.	6	27.3	27.3	27.3
RECOMMENDED	1.	7	31.8	31.8	59.1
REQUIRED	2.	9	40.9	40.9	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

EB COURSE STATUS: THEORIES OF LEARNING

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NOT SUGGESTED	-0.	2	9.1	9.1	9.1
RECOMMENDED	1.	6	27.3	27.3	36.4
REQUIRED	2.	14	63.6	63.6	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

EC COURSE STATUS: HISTCRY OF EDUCATION

CATEGORY LABEL	CCODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NOT SUGGESTED	0.	3	13.6	13.6	13.6
RECOMMENDED	1.	8	36.4	36.4	50.0
REQUIRED	2.	11	50.0	50.0	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

ED OBSERVATION IS A REQUIRED FIELD ACTIVITY

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	10	45.5	45.5	45.5
YES	1.	12	54.5	54.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

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NCTM ELEMENTARY SURVEY

EE REQUIRED FIELD ACTIVITY: 1-1 TUTORING?

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	14	63.6	63.6	63.6
YES	1.	8	36.4	36.4	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

EF REQ. FIELD ACT.: SMALL GROUP INSTRUCTION

CATEGORY LABEL	CCODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	13	59.1	59.1	59.1
YES	1.	9	40.9	40.9	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

EG ARE THERE OTHERS?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	17	77.3	77.3	77.3
YES	1.	5	22.7	22.7	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

EH OBSERVATION: CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	15	68.2	68.2	68.2
	1.	1	4.5	4.5	72.7
	2.	1	4.5	4.5	77.3
	6.	1	4.5	4.5	81.8
	20.	1	4.5	4.5	86.4
	25.	1	4.5	4.5	90.9
	50.	1	4.5	4.5	95.5
	75.	1	4.5	4.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

EI OBSERVATION: GRADE LEVELS

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	13	59.1	59.1	59.1
4-8	2.	5	22.7	22.7	81.8
OTHER MIX CP K-8	3.	4	18.2	18.2	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

EJ

OBSERVATION: SUPERVISED BY GRAD STUDENT

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	22	100.0	100.0	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

EK

OBSERVATION: SUPERVISED BY COLL FACULTY

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	16	72.7	72.7	72.7
YES	1.	6	27.3	27.3	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

EL OBSERVATION: SUPERVISED BY SCHOOL FAC

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	15	68.2	68.2	68.2
YES	1.	7	31.8	31.8	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

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NCTM ELEMENTARY SURVEY

EM 1-1 TUTORING: CLOCK HOURS

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	22	100.0	100.0	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

NCTM ELEMENTARY SURVEY

EN 1-1 TUTORING: GRADE LEVELS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	18	81.8	81.8	81.8
4-8	2.	4	18.2	18.2	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES	22	MISSING CASES	0
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NCTM ELEMENTARY SURVEY

EO

1-1 TUTORING: SUPERVISED BY GRAD STUDENT

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	22	100.0	100.0	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

-EP

1-1 TUTORING: SUPERVISED BY COLL FACULTY

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	19	86.4	86.4	86.4
YES	1.	3	13.6	13.6	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

GW

1-1 TUTORING: SUPERVISED BY SCHOOL FAC

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	18	81.8	81.8	81.8
YES	1.	4	18.2	18.2	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

ER SMALL GROUP INSTRUCTION-SGI: CLOCK HOURS

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	20	90.9	90.9	90.9
	5.	2	9.1	9.1	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

NCTN ELEMENTARY SURVEY

ES SGI: GRADE LEVELS

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	18	81.8	81.8	81.8
4-8	2.	2	9.1	9.1	90.9
OTHER MIX OF K-8	3.	2	9.1	9.1	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

ET SGI: SUPERVISED BY GRADUATE STUDENT

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	22	100.0	100.0	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

NCTM ELEMENTARY SURVEY

EU SGI: SUPERVISED BY COLLEGE FACULTY

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	19	86.4	86.4	86.4
YES	1.	3	13.6	13.6	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

EV SGI: SUPERVISED BY PUBLIC SCHOOL FACULTY

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	17	77.3	77.3	77.3
YES	1.	5	22.7	22.7	100.0
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

NCTM ELEMENTARY SURVEY

EW

CTHER: CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	21	95.5	95.5	95.5
	20.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

EX OTHER: GRADE LEVELS

CATEGORY LABEL	CCDE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	19	86.4	86.4	86.4
4-8	2.	2	9.1	9.1	95.5
OTHER MIX CF K-8	3.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

NCTM ELEMENTARY SURVEY

EY OTHER: SUPERVISED BY GRADUATE STUDENT

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	22	100.0	100.0	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	
VALID CASES	22	MISSING CASES	0		

NCTM ELEMENTARY SURVEY

EZ

CTHER: SUPERVISED BY COLLEGE FACULTY

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	19	86.4	86.4	86.4
YES	1.	3	13.6	13.6	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

FA CTHEB: SUPERVISED BY PUBLIC SCHOOL FAC

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	20	90.9	90.9	90.9
YES	1.	2	9.1	9.1	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	
VALID CASES	22	MISSING CASES	0		

NCTM ELEMENTARY SURVEY

PB ST PREREQUISITE-STP: PASS MATH ED COURSE

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	17	77.3	77.3	77.3
YES	1.	5	22.7	22.7	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

PC STP: OVERALL GRADE POINT AVERAGE

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	12	54.5	54.5	54.5
YES	1.	10	45.5	45.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FD GRADE POINT AVERAGE CUT-OFF SCORE

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.0	12	54.5	54.5	54.5
	1.90	1	4.5	4.5	59.1
	2.00	3	13.6	13.6	72.7
	2.50	2	9.1	9.1	81.8
	50.00	1	4.5	4.5	86.4
	60.00	1	4.5	4.5	90.9
	62.00	1	4.5	4.5	95.5
	66.00	1	4.5	4.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTE ELEMENTARY SURVEY

PE STP: GRADE POINT AVERAGE IN MAJOR

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	20	90.9	90.9	90.9
YES	1.	2	9.1	9.1	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	
VALID CASES	22	MISSING CASES	0		

NCTM ELEMENTARY SURVEY

PF MAJOR GRADE POINT AVERAGE CUT-OFF SCORE

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.0	20	90.9	90.9	90.9
	2.50	2	9.1	9.1	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

PG ARE THERE OTHER SIP'S?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	15	68.2	68.2	68.2
YES	1.	7	31.8	31.8	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

FH

STUDENT TEACHING HOURS BEFORE METHODS

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	0.	13	59.1	59.1	59.1
	5.	1	4.5	4.5	63.6
	15.	1	4.5	4.5	68.2
	20.	1	4.5	4.5	72.7
	24.	1	4.5	4.5	77.3
	25.	1	4.5	4.5	81.8
	30.	3	13.6	13.6	95.9
	120.	1	4.5	4.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

PI STUDENT TEACHING HOURS DURING METHODS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	0.	7	31.8	31.8	31.8
	2.	1	4.5	4.5	36.4
	5.	1	4.5	4.5	40.9
	15.	2	9.1	9.1	50.0
	16.	1	4.5	4.5	54.5
	24.	1	4.5	4.5	59.1
	30.	1	4.5	4.5	63.6
	50.	1	4.5	4.5	68.2
	60.	1	4.5	4.5	72.7
	105.	1	4.5	4.5	77.3
	160.	1	4.5	4.5	81.8
	225.	1	4.5	4.5	86.4
	280.	1	4.5	4.5	90.9
	292.	1	4.5	4.5	95.5
	500.	1	4.5	4.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

PJ

STUDENT TEACHING HOURS UPON GRADUATION

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	4	18.2	18.2	18.2
	1.	1	4.5	4.5	22.7
	10.	1	4.5	4.5	27.3
	60.	1	4.5	4.5	31.8
	80.	1	4.5	4.5	36.4
	120.	1	4.5	4.5	40.9
	180.	1	4.5	4.5	45.5
	195.	1	4.5	4.5	50.0
	200.	1	4.5	4.5	54.5
	220.	1	4.5	0.5	59.1
	225.	2	9.1	9.1	68.2
	240.	1	4.5	4.5	72.7
	280.	1	4.5	4.5	77.3
	292.	1	4.5	4.5	81.8
	300.	1	4.5	4.5	86.4
	330.	1	4.5	4.5	90.9
	350.	1	4.5	4.5	95.5
	420.	1	4.5	4.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

FK ST HOURS SPENT TEACHING MATHEMATICS

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	5	22.7	22.7	22.7
	4.	1	4.5	4.5	27.3
	7.	1	4.5	4.5	31.8
	10.	1	4.5	4.5	36.4
	15.	1	4.5	4.5	40.9
	20.	2	9.1	9.1	50.0
	23.	1	4.5	4.5	54.5
	30.	1	4.5	4.5	59.1
	35.	1	4.5	4.5	63.6
	37.	1	4.5	4.5	68.2
	40.	2	9.1	9.1	77.3
	45.	1	4.5	4.5	81.8
	50.	2	9.1	9.1	90.9
	60.	1	4.5	4.5	95.5
	300.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

FL HOURS OF MATH TEACHING REQUIRED IN ST

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	20	90.9	90.9	90.9
	15.	1	4.5	4.5	95.5
	40.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FM ST: NUMBER OF WEEKS

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	1	4.5	4.5	4.5
	4.	1	4.5	4.5	9.1
	6.	1	4.5	4.5	13.6
	8.	4	18.2	18.2	31.8
	9.	3	13.6	13.6	45.5
	10.	3	13.6	13.6	59.1
	12.	1	4.5	4.5	63.6
	13.	2	9.1	9.1	72.7
	14.	1	4.5	4.5	77.3
	15.	1	4.5	4.5	81.8
	18.	1	4.5	4.5	86.4
	19.	1	4.5	4.5	90.9
	21.	1	4.5	4.5	95.5
	30.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

FN ST: NUMBER OF HOURS PER DAY IN LAST WEEK

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	4	18.2	18.2	18.2
	1.	1	4.5	4.5	22.7
	2.	2	9.1	9.1	31.8
	3.	1	4.5	4.5	36.4
	4.	4	18.2	18.2	54.5
	5.	8	36.4	36.4	90.9
	6.	2	9.1	9.1	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

FO ST SUPERVISION-STIS: # VISITS BY MATH ED

CATEGORY LABEL	CCODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	15	68.2	68.2	68.2
	1.	3	13.6	13.6	81.8
	2.	1	4.5	4.5	86.4
	6.	1	4.5	4.5	90.9
	7.	1	4.5	4.5	95.5
	8.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

FP STS: NUMBER OF VISITS BY NONMATH ED

CATEGORY LABEL	CCODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	5	22.7	22.7	22.7
	1.	1	4.5	4.5	27.3
	2.	4	18.2	18.2	45.5
	3.	2	9.1	9.1	54.5
	4.	1	4.5	4.5	59.1
	5.	2	9.1	9.1	68.2
	6.	1	4.5	4.5	72.7
	7.	1	4.5	4.5	77.3
	10.	1	4.5	4.5	81.8
	12.	1	4.5	4.5	86.4
	14.	1	4.5	4.5	90.9
	16.	1	4.5	4.5	95.5
	18.	1	4.5	4.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

FQ

STS: NUMBER OF VISITS BY GRAD STUDENT

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	21	95.5	95.5	95.5
	7.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

FR SIS: AVERAGE LENGTH OF VISIT

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	4	18.2	18.2	18.2
	3.	1	4.5	4.5	22.7
	30.	1	4.5	4.5	27.3
	40.	3	13.6	13.6	40.9
	60.	5	22.7	22.7	63.6
	90.	3	13.6	13.6	77.3
	99.	5	22.7	22.7	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

PS IS THE MATH CONTENT RELATED TO SCIENCE?

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	19	86.4	86.4	86.4
YES	1.	3	13.6	13.6	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

PT ARE THE MATH METHODS RELATED TO SCIENCE?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	14	63.6	63.6	63.6
YES	1.	8	36.4	36.4	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

FO HAS YOUR PROV COMMITTED ITSELF TO CBTE?

CATEGORY LABEL	CCDE	ABSOLUTE FFREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	22	100.0	100.0	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

PV EXTENT OF CBTE IN YOUR PROGRAM?

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NCN	-0.	19	86.4	86.4	86.4
LITTLE	1.	3	13.6	13.6	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

PW DOES YOUR PROGRAM PREP PRE-SCHOOL CERT?

CATEGORY LABEL	CCDE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	21	95.5	95.5	95.5
YES	1.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

PX DOES YOUR PROGRAM PREP K-3 CERTIFICATION

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	16	72.7	72.7	72.7
	1.	3	13.6	13.6	86.4
YES	2.	3	13.6	13.6	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

FY DOES YOUR PROGRAM PREP 4-6 CERTIFICATION

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	18	81.8	81.8	81.8
	1.	2	9.1	9.1	90.9
YES	3.	2	9.1	9.1	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

FZ DOES YOUR PROGRAM PREP K-6 CERTIFICATION

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	17	77.3	77.3	77.3
	1.	2	9.1	9.1	86.4
YES	4.	3	13.6	13.6	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

GA DO YOU HAVE OTHER CERTIFICATION OPTIONS?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	8	36.4	36.4	36.4
	1.	5	22.7	22.7	59.1
YES	5.	9	40.9	40.9	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

GB IS A PRE-SCHOOL OPTION AVAILABLE?

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	20	90.9	90.9	90.9
YES	1.	2	9.1	9.1	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

GC IS A MIDDLE SCHOOL OPTION AVAILABLE?

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	22	100.0	100.0	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES 22 MISSING CASES 0

NCTM ELEMENTARY SURVEY

GD KINDERGARTEN-PRIMARY OPTION AVAILABLE?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	18	81.8	81.8	81.8
	1.	1	4.5	4.5	86.4
YES	3.	3	13.6	13.6	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

GV IS A JUNIOR SECONDARY OPTION AVAILABLE?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	20	90.9	90.9	90.9
YES	4.	1	4.5	4.5	95.5
	7.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

GP ARE OTHER OPTIONS AVAILABLE?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	14	63.6	63.6	63.6
YES	5.	8	36.4	36.4	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

GG EVALUATION: FOLLOW-UP GRADUATES

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	12	54.5	54.5	54.5
YES	1.	9	40.9	40.9	95.5
	3.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

GH EVALUATION: WRITTEN FEEDBACK OF GRADS

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	6	27.3	27.3	27.3
YES	1.	16	72.7	72.7	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

GI EVALUATION: SURVEY OF SCHCCI TEACHERS

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	11	50.0	50.0	50.0
YES	1.	11	50.0	50.0	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTE ELEMENTARY SURVEY

GJ EVALUATION: OTHER METHODS?

CATEGORY LABEL	CCDE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	16	72.7	72.7	72.7
YES	1.	6	27.3	27.3	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

GK METHODS A: YEARS SINCE LAST TAUGHT ELEM

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	5	22.7	22.7	22.7
	1.	1	4.5	4.5	27.3
	2.	1	4.5	4.5	31.8
	5.	1	4.5	4.5	36.4
	8.	2	9.1	9.1	45.5
	9.	1	4.5	4.5	50.0
	10.	6	27.3	27.3	77.3
	12.	2	9.1	9.1	86.4
	13.	1	4.5	4.5	90.9
	16.	1	4.5	4.5	95.5
	18.	1	4.5	4.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES 22

MISSING CASES 0

NCTM ELEMENTARY SURVEY

GL METHODS E: YEARS SINCE LAST TAUGHT ELEM

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	9	40.9	40.9	40.9
	3.	1	4.5	4.5	45.5
	5.	1	4.5	4.5	50.0
	9.	1	4.5	4.5	54.5
	10.	7	31.8	31.8	86.4
	11.	1	4.5	4.5	90.9
	12.	1	4.5	4.5	95.5
	14.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

GM METHODS C: YEARS SINCE LAST TAUGHT ELEM

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	12	54.5	54.5	54.5
	1.	2	9.1	9.1	63.6
	3.	3	13.6	13.6	77.3
	8.	1	4.5	4.5	81.8
	10.	3	13.6	13.6	95.5
	12.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

GN CONTENT A: YEARS SINCE LAST TAUGHT ELEM

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	10	45.5	45.5	45.5
	1.	1	4.5	4.5	50.0
	5.	1	4.5	4.5	54.5
	10.	6	27.3	27.3	81.8
	13.	1	4.5	4.5	86.4
	16.	1	4.5	4.5	90.9
	18.	1	4.5	4.5	95.5
	20.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

GO CONTENT B: YEARS SINCE LAST TAUGHT ELEM

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	14	63.6	63.6	63.6
	3.	1	4.5	4.5	68.2
	10.	6	27.3	27.3	95.5
	15.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

GP CONTENT C: YEARS SINCE LAST TAUGHT ELEM

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	18	81.8	81.8	81.8
	1.	1	4.5	4.5	86.4
	3.	1	4.5	4.5	90.9
	10.	2	9.1	9.1	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

GQ FIRST UNUSUAL PRACTICE LISTED

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	10	45.5	45.5	45.5
	1.	5	22.7	22.7	68.2
	2.	1	4.5	4.5	72.7
	3.	1	4.5	4.5	77.3
	7.	1	4.5	4.5	81.8
	9.	1	4.5	4.5	86.4
	12.	1	4.5	4.5	90.9
	13.	1	4.5	4.5	95.5
	58.	1	4.5	4.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

GR SECOND UNUSUAL PRACTICE LISTED

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	15	68.2	68.2	68.2
	4.	2	9.1	9.1	77.3
	5.	1	4.5	4.5	81.8
	6.	1	4.5	4.5	86.4
	8.	1	4.5	4.5	90.9
	10.	1	4.5	4.5	95.5
	11.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

GS THIRD UNUSUAL PRACTICE LISTED

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	21	95.5	95.5	95.5
	1.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

GU SINGLE MOST IMPORTANT ASPECT OF PROGRAM

CATEGORY LABEL	CCDE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	2	9.1	9.1	9.1
	1.	2	9.1	9.1	18.2
	2.	2	9.1	9.1	27.3
	3.	5	22.7	22.7	50.0
	4.	1	4.5	4.5	54.5
	5.	1	4.5	4.5	59.1
	6.	1	4.5	4.5	63.6
	7.	1	4.5	4.5	68.2
	8.	1	4.5	4.5	72.7
	9.	1	4.5	4.5	77.3
	10.	1	4.5	4.5	81.8
	11.	1	4.5	4.5	86.4
	13.	1	4.5	4.5	90.9
	14.	1	4.5	4.5	95.5
	26.	1	4.5	4.5	100.0
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

WY GREATEST NEED IN PROGRAM

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	2	9.1	9.1	9.1
	1.	6	27.3	27.3	36.4
	2.	1	4.5	4.5	40.9
	3.	2	9.1	9.1	50.0
	4.	1	4.5	4.5	54.5
	5.	3	13.6	13.6	68.2
	6.	1	4.5	4.5	72.7
	7.	2	9.1	9.1	81.8
	8.	1	4.5	4.5	86.4
	9.	1	4.5	4.5	90.9
	25.	1	4.5	4.5	95.5
	38.	1	4.5	4.5	100.0
		-----	-----	-----	
	TOTAL	22	100.0	100.0	

VALID CASES

22

MISSING CASES

0

NCTM ELEMENTARY SURVEY

POSITIONAL INDEX

VARIABLE	PAGE	VARIABLE	PAGE	VARIABLE	PAGE	VARIABLE	PAGE
A	1	AU	45	CM	89	EE	133
B	2	AV	46	CN	90	EF	134
C	3	AW	47	CO	91	EG	135
F	4	AX	48	CP	92	EH	136
G	5	AY	49	CQ	93	EI	137
H	6	AZ	50	CR	94	EJ	138
I	7	BA	51	CS	95	EK	139
J	8	BB	52	CT	96	EL	140
K	9	BC	53	CU	97	EM	141
L	10	BD	54	CV	98	EN	142
M	11	BE	55	CW	99	EO	143
N	12	BF	56	CX	100	EP	144
O	13	BG	57	CY	101	GW	145
P	14	BH	58	CZ	102	ER	146
Q	15	BI	59	DA	103	ES	147
R	16	BJ	60	DB	104	ET	148
S	17	BK	61	DC	105	EU	149
T	18	BL	62	DD	106	EV	150
U	19	BM	63	DE	107	EW	151
V	20	BN	64	DF	108	EX	152
W	21	BO	65	DG	109	EY	153
X	22	BP	66	DH	110	EZ	154
Y	23	BQ	67	DI	111	FA	155
Z	24	ER	68	DJ	112	FB	156
AA	25	BS	69	DK	113	FC	157
AB	26	BT	70	DL	114	FD	158
AC	27	BU	71	DM	115	FE	159
AD	28	BV	72	DN	116	FF	160
AE	29	BW	73	DO	117	FG	161
AF	30	BX	74	DP	118	FH	162
AG	31	GX	75	DQ	119	FI	163
AH	32	BZ	76	DR	120	FJ	164
AI	33	CA	77	DS	121	FK	165
AJ	34	CB	78	DT	122	FL	166
AK	35	CC	79	DU	123	FM	167
AL	36	CD	80	DV	124	FN	168
AM	37	CE	81	DW	125	FO	169
AN	38	CF	82	DX	126	FP	170
AO	39	CG	83	DY	127	FQ	171
AP	40	CH	84	DZ	128	FR	172
AQ	41	CI	85	EA	129	FS	173
AR	42	CJ	86	EB	130	FT	174
AS	43	CK	87	EC	131	FU	175
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NCTM ELEMENTARY SURVEY

POSITIONAL INDEX

VARIAELE	PAGE	VARIABLE	PAGE	VARIABLE	PAGE	VARIABLE	PAGE
FW	177	GD	184	GK	191	GB	198
PX	178	GV	185	GL	192	GS	199
FY	179	GF	186	GM	193	GU	200
FZ	180	GG	187	GN	194	WY	201
GA	181	GH	188	GO	195		
GB	182	GI	189	GP	196		
GC	183	GJ	190	GQ	197		